

ABSTRACT OF THE DISCLOSURE

A torque motor configuration that minimizes off-axis magnetic forces emanating from adjacent energized coils acting on a magnet. The motor includes a stator comprising a sleeve with conductive coils disposed thereon, and the stator further defining a rotor opening, and a rotor disposed in the rotor opening comprising a magnet disposed on a shaft with the sleeve being shorter than the magnet and the coils including turn around zones beyond respective ends of the sleeve. The motor may be incorporated into an optical scanning system including optical elements for detecting light from a light source.